ORGANIC DATA VALIDATION

Case No.: 20267 Laboratory: ARI SDG#: FAA59

Site: <u>Castle Miles Landfill</u> No. of Samples: <u>19</u> Matrix: <u>Soil and Water</u>

Soil Samples: FA-A63, FA-A64, FA-A65, FA-A66, FA-A67, FA-A68, FA-A69, FA-A70, FA-A71, FA-A72, FA-A73

Water Samples: FA-A59, FA-A60, FA-A74, FA-A75, FA-A76, FA-A77, FA-A78, FA-A79

Comments: Eleven soil samples and eight water samples from the Castle Miles Landfill were analyzed. Anticipated concentrations were low. Samples were not analyzed within the allowable holding times. VOA, BNA, and pesticides data are provisional. Problems were encountered in the calibration of VOAs and BNAs and the pesticide analysis sequence was not acceptable because a standard was not analyzed after every fifth sample. All detectable concentrations are qualified as estimates.

Holding Times

VOA:

The solid samples met EPA QA/QC criteria but the water samples exceeded the allowed holding times. Reported VOA values in water samples were qualified as estimates.

BNA:

The water samples met the EPA QA/QC criteria but the extraction holding times were exceeded for all soil samples.

Pest/PCB:

The water samples met the EPA QA/QC criteria but the extraction holding times were exceeded for all soil samples. Reported Pest/PCB values in soil samples were qualified as estimates.

Tuning/Performance

VOA:

Meets EPA QA/QC criteria.

BNA:

Meets EPA QA/QC criteria.

Pest/PCB:

The Analysis Sequence did not meet EPA QA/QC criteria.

Calibrations

VOA:

%D for chloromethane, bromoform, and acetone
all exceeded EPA QA/QC criterion of 25%.

BNA:

\$D for 2,4-Dinitrophenol exceeded EPA QA/QC
criterion of 25%. Internal standards for
samples FA-A63, FA-A64, FA-A69, FA-A70, FA-A71
and FA-A72 did not meet area requirements.
Samples were rerun and internal standards were
outside area specifications again.

Pest/PCB:

RSD for Linearity Check Compounds failed EPA QA/QC criterion of 10%. %D for standards failed EPA QA/QC criterion of 15% for quantative columns. %D for standards failed EPA QA/QC criterion of 20% for confirmatory columns.

4. Blanks

VOA:

Meets EPA QA/QC criteria.

BNA:

Meets EPA QA/QC criteria.

Pest/PCB:

Meets EPA QA/QC criteria.

System Monitoring Compounds (SMCs)/Surrogates

VOA:

Meets EPA QA/QC criteria.

BNA:

Meets EPA QA/QC criteria.

Pest/PCB:

Surrogate recoveries were not acceptable for samples FA-A59, FA-A76MS, and FA-A76MSD.

6. Matrix Spike/Matrix Spike Duplicates

VOA:

Meets EPA QA/QC criteria.

BNA:

MS and MSDs were out of compliance because reported values exceeded allowable ranges for recovery. Recovery of 4-Nitrophenol, Pentachlorophenol, 1,4-Dichlorobenzene, and 1,2,4-Trichlorobenzene did not meet standards.

Pest/PCB:

Meets EPA QA/QC criteria.

7a. Compound Identity/Quantitation

VOA:

Meets EPA QA/QC criteria.

BNA:

Meets EPA QA/QC criteria.

Pest/PCB:

Meets EPA QA/QC criteria.

7b. Data Completeness

VOA:

Meets EPA QA/QC criteria.

BNA:

Meets EPA QA/QC criteria.

Pest/PCB:

Data package provided did not correspond to the requirements of the EPA data validation procedures.

8. Case Assessment

VOA:

Water samples were not analyzed within the allowed holding times. Calibrations of several VOA parameters were out of compliance. Data are provisional.

BNA:

Calibrations of a few SVOA parameters were out of compliance. Soil sample extracts were not analyzed within the allowed holding time. Data are provisional.

Pest/PCB:

Calibrations of a few Pesticide/PCB parameters were out of compliance. The analytical sequence was not correct. Soil sample extracts were not analyzed within the allowed holding time. Data are provisional.

Site Name and Code: Castle Miles LF Case Number: 20297 Concentrations in micrograms/kilogram (ug/kg) Compiled by: Fluor Daniel, Inc.

	1 rad	fic Number:	FA-A50		FA-A60		FA-A63	-	The real Property lies	-	The state of the last of the l					
		Matrix	WATER		WATER		SOIL	-	FA-A64		FA-A85		FA-ASS		FA-A67	
	Perce	nt Moisture:					18	-	SOIL	-	SOIL		SOIL	17.5	SOIL	_
		Location	GW-16		GW-18	_	\$5-01	-	21		21		14		16	
		and/or					00-01		55-02		55-03		55-04		SS-05	
		Sample			1											
		Description:									1					
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	-			-					
Phenol	108-95-2	BNA	-	-		-	- Concentration	-	Concentration	c	Concentration	C	Concentration	C	Consentration	I
ois@-Chloroethyl)Ether	111-44-4	BNA		-									1	1	-	+-
-Chlorophenol	95-57-8	BNA				1000							-	-		1
3-Dichlorobenzene	541-73-1															
,4-Dichlorobenzene		BNA			-	10				-					The state of the state of	
,2-Dichlorobenzene	106-46-7	BNA	100	11111		1										
- Methylphenol	95-50-1	BNA						-						100		1
	95-48-7	BNA I										9		100		+
2.2'-Oxytois(1-Chloropropane)	108-60-1	BNA I						-0								+
- Methylphenol	106-44-5	BNA I				-				1						+
N-Nitroso-Di-n-Propylamine	621-64-7	BNA		-												-
lexachloroethane	67-72-1	BNA		_						1000				-		-
iroberzene	98-95-3	BNA						801				-				
sophorone	78-59-1	BNA										1				
-Nitrophenol	88-75-5															13
4-Dimethylphenol		BNA			3							-				
is 2 -Chloroethoxy) Methane	105-67-9	BNA						-		-						
4-Dichlorophenol	111-91-1	BNA						-		-						
2,4 - Trichlorobenzene	120-83-2	BNA				-		-								
aphthalene	120-82-1	BNA				-	-	-								
	91-20-3	BNA T		-		-		-								
- Chloroanitine	106-47-8	BNA T		-		-						7		-		_
exachlorobutadiene	87-68-3	BNA F		-		-						_		-		
-Chloro-3-Methylphenol	59-50-7	BNA -		-						_		-+		-		
- Methylnaphthalene		BNA -		-								-+		-		
exachlorocyclopenta diene		BNA -						1		-		-		_		
4,8-Trichlorophenoi								1		-		+				
4,5 - Trichlorophenol		BNA				1		+		+						
-Chloronaphthalene		BNA		1		1		+		+		-				
-Nitroaniline		BNA				+		+		-						
		BNA		+		+	-	-				Т		1		
methyl Phthalate		BNA		+	-	+		+						+	-	
enaphthylene	208-96-8	BNA -		+	-	+		-				1		+		-
5-Dinitrotoluene		BNA I		+		1				T		+	-	+		
Nitroaniline		BNA -		+		1						+	-	+		
zenaphthelene		BNA -		1						+	-	+	-	+		
SEND	OC 32-9	DIM						_		-						

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitate
 B Analyte was detected in the blank.
 J The associated numerical value is an estimated quantity.
 R Date for analyte is unusable (compound mayor may not be present).
 N Presumptive evidence of presence of the material.
 NJ Presumptive avidence of the presence of the material at an estimated quantity.
 UJ The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity. The associated numerical value is the sample quantitation limit.

RISVOABLE

Site Name and Code: Castle Miles LF Case Number: 20267 Concentrations in micrograms/kilogram (ug/kg) Compiled by: Fluor Daniel, Inc.

	Traf	fic Number:	FA-A59		FA-A60		FA-A63		FA-A64	-	FA-Ast	-	-	-	The same of the sa	_
		Matrix	WATER		WATER		SOIL		SOIL	-	SOIL	_	FA-A66		FA-A67	
	Percer	nt Moisture:					18		21	-	21	-	SOIL 14	-	SOIL	_
		Location	GW-16		GW-18		SS-01		SS-02		\$5-00	-	55-04	-	16 SS-05	_
		Sample Description:											-		33-13	
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	c	Concentration	10	Consentution		-	,	-	_
2,4-Dinitrophenal	51-28-5	BNA				-		-		-	Concentration	-	Concentration	C	Concentration	C
4-Nitrophenol	100-02-7	BNA						-		-						
Diberzofuran	132-64-9	BNA				-		-								Т
2,4-Dinitrotoluene	121-14-2	BNA				-										T
Diethylphthalate	84-66-2	BNA		-								ă își				
4-Chlorophenyl-phenylether	7005-72-3	BNA		-								1				1
Fluorene	86-73-7	BNA		-		_										+
4-Nitroaniline	100-01-6	BNA				_						T.				+
4,6-Dinitro-2-Methylphenol	534-52-1	BNA				_		- 7		9.0						+
N-Nitrosodiphenylamine(1)	86-30-6	BNA										3.77				+
4 - Bromophenyl - phenylether	101-55-3	BNA													COLUMN TO SECURE	+-
Hexachlorobenzene	118-74-1	BNA						175		100						+
Pentachlorophenol	87-86-5	BNA						7 19								+
Phenanthrene	85-01-B	BNA														+
Anthracene	120-12-7	BNA										JEH.		-		+
Cartazole	86-74-8	BNA														+
Di-n-Butylphthalate	84-74-2	BNA		400				50.07								+
Fluoranthene	206-44-0	BNA								1 - 7				-	-	-
Pyrene	129-00-0	BNA								- 0						-
Butylbenzylphthalate	85-68-7	BNA -											-			-
3,3'-Dichlorobenzidine			-			Т								-		-
Benzo(a) Anthracene	91-94-1	BNA														-
Chrysene	56-55-3	BNA				T						-			-	-
bis 2 - Ethylhexyl) Phthalate	218-01-9	BNA				Т						-		-		-
Di -n - Octyl Phthalate	117-81-7	BNA				Т				-		-		-		-
Benzo(b) Fluoranthene	117-84-0	BNA				T		_				-		-		
Benzo(k)Fluoranthene	205-99-2	BNA				1		_		-	-	-				
	207-08-9	BNA				1		+		+		-				
Benzo(a) Pyrene	50-32-8	BNA				1		1		-		-				
indeno(12,3-cd)Pyrene	193-39-5	BNA				+	-	-		-		-				
Biberz (a,h)Anthracene	53-70-3	BNA				+		+		-		-				
Benzo(g,h,i)Perylene	191-24-2	BNA		_		+		+		-		1				

- LECEND

 1 The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.

 B Analyte was distincted in the blank.

 J The associated numerical value is an estimated quantity.

 R Date for analyte is unusuable (compound may or may not be present).

 N Presumptive evidence of presence of the material.

 NJ Presumptive evidence of the presence of the material.

 NJ Presumptive evidence of the presence of the material.

 UI The material was analyzed for, but was not detected. The sample quantity limit is an estimated quantity.

Site Name and Code: Castle Miles LF Case Number: 20297 Concentrations in micrograms/kilogram (ug/kg) Compiled by: Fiuor Daniel, Inc.

	Tref	Mic Number:	FA-A68 SOIL	-	FA-A89	-	FA-A70	_	FA-A71	-	FA-A72	-	FA-A73	-	FA-A74	-
	Parra	nt Moisture	20	_	SOIL	_	SOIL		SOIL		SOIL		SOIL		WATER	
		Location	SS-06	-	SS-07		22	_	26		20		19	3,10		100
		Sample Description:	33-06		55-07		SS-08		\$8-09		SS-10		\$8-11		GW-12	
COMPOUND NAME	CAS NO.	CLASS	Concentration	TC	Concentration	C	Concentration	C	Concentration	Te	Consented			-		-
Phenol	108-95-2	BNA		1				-	-	-	Concentrat A	-	Concentration	C	Concentration	10
bis@-Chicroethyl)Ether	111-44-4	BNA		+				-		-		_		- 3		1
2 - Chlorophenol	95-57-8	BNA		_				-	-	-						
1,3-Dichlorobenzene	541-73-1	BNA		-				-		-				- 7		
1,4-Dichlorobenzene	106-46-7	BNA		-				-		-						
1,2-Dichlorobenzene	95-50-1	BNA		+				-	-	-						
2-Methylphenol	95-48-7	BNA		-						-						
2,2'-Oxybis(1-Chloropropane)	108-60-1	BNA		-		_										
4-Methylphenol	106-44-5	BNA		-												
N-Nitroso-Di-n-Propylamine	621-64-7	BNA	-	-												\top
Hexachloroethane	67-72-1	BNA	-	-								TO D				
Nitroberzene	98-95-3	BNA												10/3		
Isophorone	78-59-1	BNA					1									1
2-Nitrophenol	88-75-5	BNA		-										3		_
2,4-Dimethylphenol	105-67-9	BNA								100						
bis 2 - Chloroethoxy) Methane	111-91-1	BNA														
2,4 - Dichlorophenol	120-83-2	BNA										100				
1.2.4 - Trichlorobenzene	120-82-1	BNA						713								_
Naphthalene	91-20-3	BNA					3					1118				+
4-Chlomaniline	106-47-8	BNA								0.50						+
Hexachlorobuta dene	87-68-3	BNA										-				1
4 - Chloro - 3 - Methylphenol								1						-		-
2-Methylnaphthalene	59-50-7	BNA								100				-		-
Hexachlorocyclopentadiene	91-57-6	BNA						10	The same of the same of			-		-		-
2,4,6 -Trichlorophenol	77-47-4	BNA								- 3		- 1		-		\vdash
2,4,5 - Inchidrophenol	88-06-2	BNA						100						-		-
2,4,5 - Trichlorophenol 2 - Chloronaphthalene	95-95-4	BNA												-		\vdash
2-Choronaphinalene 2-Nitrosniline	91-58-7	BNA												-	-	\vdash
	88-74-4	BNA							-					-		\vdash
Dimethyl Phthalate	131-11-3	BNA							-			-		-		
Acenaphthylene	208-96-8	BNA				1				-				-		
2,6-Dinitrotoluene	606-20-2	BNA			7	1						-		-		
3-Nitoanilirie	99-09-2	BNA				-						-		-		
Acenaphthelene EGEND	83-32-9	BNA		100		-		-		-		_				

- | EGENO | U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit. B Analyte was detected in the blank.

 J The associated numerical value is an estimated quantity.

 A Date for margle is unusuable (compound may or may not be present).

 N Presumptive evidence of presence of the material.

 N Presumptive evidence of the presence of the material.

 N Presumptive evidence of the presence of the material at an estimated quantity.

 U The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

E:\SVOABLK

Site Name and Code: Castle Miles LF Case Number: 20287 Concentrations in micrograms/kilogram (ug/kg) Compiled by: Fluor Daniel, Inc.

		Mc Number Matrix	1 11 MUS	_	FA-A69		FA-A70		FA-A71	-	-	-				
	Perce	nt Moisture			SOIL		SOIL		SOIL	_	FA- 172		FA-A73	Time I com	FA-A	74
		Location		_	19		22		26	-	SCIL		SOIL		WATER	-
		and/or			SS-07		SS-08	-	\$5-00	-	95-10	_	19	-		
		Sample									98-10		95-11		GW-1	12
COMPOUND NAME		Description					1		1				1			
2,4-Dinitrophenol	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	To	Concentration	-						
4-Nitrophengi	51-28-5				1	-		-	Concentration	C	Concentration	C	Concentration	C	Concentrate	8
Diberzofuran	100-02-7					-	-							-	-	ė
2.4-Dinitrotoluene	132-64-9					-		1				-		-		
Diethylphthalate	121-14-2											-				Ü
4-Chlorophenyl-phenylether	84-66-2	BNA						- 3		7		-				Ī
Fluorene	7005-72-3	BNA														ij
4-Niroaniline	86-73-7	BNA	700	-				(-)								ĺ
4.6. Digita a state	100-01-6	BNA														ĺ
4,6-Dinitro-2-Methylphenol	534-52-1	BNA								-				100		ï
N-Nitrosodiphenylamine(1)	86-30-6	BNA		-		(11)				-						-
4 - Bromophenyl - phenylether	101-55-3	BNA								-						-
nexachior obenzene	118-74-1	BNA								-						Ť
Pentachlorophenol	87-86-5	BNA								-						-
Phenantivene	85-01-8	BNA						-		-						
Anthracene	120-12-7	BNA						-		-						
Carbazole	86-74-8	BNA -				7		-		-				1		-
Di-n-Butylphthalate	84-74-2	BNA				1		-		-				-		-
Loranthene	206-44-0					1		+		1				-		-
yrene		BNA		1		+		+						+		
Sutylbenzylphthalate	Company of the last of the las	BNA		1		+		+						+		_
.3'-Dichlorobergidine		BNA		1		+		+					-	+		į
Senzo(a) Anthracene		BNA [+		+		1				1	-	+		
Tysene		BNA		1		+		-				1		-		
is Q - Ethylhexyl) Phthalate		BNA		+		+		-				+	-	+		ĺ
n-Octyl Phthalate		BNA		+		+						+		+		ĺ
enzo(b) Fluoranthene		BNA -		+		+						1		+		1
enzo(k)Fluoranthene		BNA		+		+						+		+		j
enzo(a) Pyrene		BNA		+		1				1		+		1		j
deno(1,2,3-cd)Pyrene	50-32-8	BNA		+		1				1		+		1		ı
ibenz(a,h)Anthracene		BNA -		+		1				+		1				đ
DO K (d. n) AND TACENS	53-70-3	BNA -		+						+	-	+				1
enzo(g,h,i)Perylene		BNA -		+						+	-	+				đ
GEND		The Person Name of Street, or other Designation of the Person of the Per	-	1						+		1		I		Ť
 The material was analyzed for, but was n Analytic was detected in the blank. 	The second secon												100	-		-

- U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitato B Analytim was detected in the billing to the sample quantity.

 J The associated numerical value is an estimated quantity.

 R Date for analyte is unusable (so impound may or may not be present).

 N Presumptive evidence of presence of the material.

 NJ Presumptive evidence of the presence of the material at an estimated quantity.

 UJ The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

BISVOABLK

Bite Name and Code: Castle Miles LF Case Number: 20267 Concentrations in micrograms/kilogram (ug/kg)

Compiled by: Fluor Daniel, Inc.																
	Traff	ic Number:	FA-A75		FA-A76		FA-A77		FA-A78		FA-A79	-		300		
		Matrix	WATER		WATER		WATER		WATER		WATER					
	Percen	t Moisture:	GW-13	_	GW-14	-	L-15		GW-17	_	GW-20	_			-	
	c	Sample Secription:					12.13		J. J		UW-20					
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
Phenol	108-95-2	BNA										Г				Г
bis(2-Chloroethyl)Ether	111-44-4	BNA								1						1
2-Chlorophenol	95-57-8	BNA														
1,3-Dichlorobenzene	541-73-1	BNA								1						-
1,4-Dichlorobenzene	106-46-7	BNA								-			-		-	-
1,2-Dichlorobenzene	95-50-1	BNA		1					-	-					-	-
2 - Methylphenol	95-48-7	BNA			-			-	 	-	-	-	-	-		+
2,2'-Oxybis(1-Chloropropane)	108-60-1	BNA		-	1			-	-	+		-	-	-		-
4-Methylphenol	106-44-5	BNA						-	-	-		-	-			-
N-Nitroso-Di-n-Propylamine	621-64-7	BNA						-	-	-		-	-	-		-
Hexachloroethane	67-72-1	BNA		-			-	-	-	-	-	-	-		-	-
Nitroberzene	98-95-3	BNA		-	_			-	-	-				-		+
Isophorone	78-59-1	BNA				-	-	-	-	-				-	-	-
2-Nitrophendi	88-75-5	BNA						-	-	-	-	-	-	-		-
2,4-Dimethylphenol	105-67-9	BNA		\vdash	-	-	-	-	-	-			-			-
bis 2 - Chloroethoxy) Methane	111-91-1	BNA		-			-	-	-	+		-	-			-
2,4-Dichlorophenoi	120-83-2	BNA		-	-	-		-	-	-			-	-	-	-
1.2.4 - Trichlorobenzene	120-82-1	BNA		-	_	-		-	-	-			-	-		
Naphthalene	91-20-3	BNA		-	-		_	-	-	-			-			
4-Chlomaniline	106-47-8	BNA		-	-	-	-	-	-	-	-		-			
Hexachlorobutadene	87-68-3	BNA						-		-			-			
4 - Chloro - 3 - Methylphenol	59-50-7	BNA		-		-		-		-		-				
2-Methylnaphthalene	91-57-6	BNA			-					_						
		BNA		-	-	-				-						
Hexachlorocyclopentadiene	77-47-4															
2,4,6 -Trichlorophenol	88-06-2	BNA							1000							
2,4,5 - Trichlorophenol	95-95-4	BNA														
2-Chloronaphthalene	91-58-7	BNA														
2 - Nitroaniline	88 -74 -4	BNA														
Dimethyl Phthalate	131-11-3	BNA														
Acenaphthylene	208-96-8	BNA														
2,6-Dinitrataluene	606-20-2	BNA														
3-Nitroaniline	99-09-2	BNA						100	- Constitution of							
Acenaphthelene	83-32-9	BNA														

- Accepanthelene 83-32-9 BNA

 LEGENO
 U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
 B Analyte was detected in the blank.
 J The associated numerical value is an estimated quantity.
 R Date for analyte is unusable (compound may or may not be present).
 N Presumptive evidence of presence of the material.
 NJ Presumptive evidence of the presence of the material at an estimated quantity.
 UJ The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

BISVOABLK

Site Name and Code: Castle Miles LF Case Number: 20267 Concentrations in micrograms/kilogram (ug/kg) Compiled by: Fluor Daniel, Inc.

	Traf	fic Number:	FA-A75	1000	FA-A76	_	FA-A77	SECTION .	The real Property lies, the last of the la	Miles	-	-	-	-		-
		Matrix	WATER		WATER		WATER	-	FA-A78 WATER	-	FA-A79			000		
	Perce	nt Moisture:					The state of the s		MAIEN	-	WATER	-	-			_
		Location and/or Sample Description:	GW-13		GW-14		L-15		GW-17		GW-20					
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	To	Concentration	16		-	-			
2,4-Dinitrophenol	51-28-5	BNA		_	-	-		-	Concentration	-	Concentration	C	Concentration	C	Concentration	· C
4-Nitrophenal	100-02-7	BNA		-	-	-		-		. 1						
Diberzofuran	132-64-9	BNA		-	-											+
2,4-Dinitrotoluene	121-14-2	BNA		-												+
Diethylphthalate	84-66-2	BNA		-												+
4-Chlorophenyl-phenylether	7005-72-3	BNA												-		+
Fluorene	86-73-7													-		+
4-Nitrophiline		BNA												-		+
4,5-Dinitro-2-Methylphenol	100-01-6	BNA										-				-
N-Nitrosodiphenylamine(1)	534-52-1	BNA								1100		-				1
4-Bromophenyl-phenylether	86-30-6	BNA														-
Hexachiorobenzene	101-55-3	BNA											-			1
Pentachiorophenol	118-74-1	BNA						1								i
Phenanthrene	97-86-5	BNA								-						
	85-01-8	BNA								-				5.47		
Anthracene	120-12-7	BNA														1
Carbazole	86-74-8	BNA														
Di-n-Butylphthalate	84-74-2	BNA														
Fluoranthene	206-44-0	BNA				-										
Pyrene	129-00-0	BNA														1
Butylbenzylphthalate	85-68-7	BNA				-										1
3,3'-Dichlorobenzidine	91-94-1	BNA		-		-									Contract of the last	+
Benzo(a) Anthracene	56-55-3	BNA		-										1		+
Chrysene	218-01-9	BNA												-		+
ois 2 - Ethylhexyl) Phthalate	117-81-7	BNA		-										-		+
Di-n-Octyl Phthalate	117-84-0	BNA											-	-		+
Benzo(b) Fluoranthene	205-99-2											-		-		-
Benzo(k)Fluoranthene		BNA								1		1		+		-
Benzo(a) Pyrene	207-08-9	BNA								-	-	+		-	-	
ndeno(1,2,3-cd)Pyrene	50-32-8	BNA				1				+		+	-	-		
Biberz (a,h) Anthracene	193-39-5	BNA								+	-	-		-		
	53-70-3	BNA [+		-		+		-				
Benzo(g,h,i)Perylene	191-24-2	BNA				1	-	-		+		-				
- The material was analyzed for, but was r - Analyte was detected in the blank The associated numerical value is an est - Date for analyte is unusable (compound - Presumptive avidence of presence of the - Presumptive evidence of the presence of - The material was analyzed for, but was	mated quantity. may or may not be po material.	esent).				mit.				- L						

BISVOABLK

Concentrations in micrograms/kilogi Compiled by: Fix or Daniel, Inc.	Traffic Nur	Matrix t Moisture Location and/or Sample Description			FA-A60 WATER GW-18		FA-A63 SOIL 18 SS-01		FA - A64 90IL 21 55 - 02		FA-A65 SOIL 21 SS-03		FA-A66 SOIL 14 SS-04		FA-A67 SOIL 16 SS-05	
COMPOUND NAME	CAS NO.	CLASS	Concentration	С	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
Chloromethane	74-87-3	VOA						П	-		THE RESERVE OF THE PERSON		-			Г
Bromomethane	74-83-9															I
Vinyl Chloride	75-01-4			U		U					12	U		U		10
Chloroethane	75-00-3	VOA	10	U	10	U	12	U	12	U	12	U		U	11	50
Methylene Chloride	75-09-2			U		U			12	U	12	U	11	U	11	Ð
Acetone	67-64-1		10	U	10	U	12	U	12	U	12	U	11	U	11	П
Carbon Disulfide	75-15-0					10										T
1,1 - Dichloroethene	75-35-4	VOA														Ε
1,1 - Dichloroethane	75-34-3			U		U						U		U	11	П
1,2-Dichloroethene (total)	540-59-0		10	U	10	U	12	U	12	U	12	U	11	U	11	I
Chloroform	67-66-3															Ε
1,2 - Dichloroethane	107-06-2															Г
2 - Butanone	78-93-3															Ε
1,1,1-Trichloroethane	71-55-6															Π
Carbon tetrachloride	56-23-5															I
Bromodichloromethane	75-27-4													1		Ι
1,2 - Dichloropropane	78-87-5															1
cis - 1,3 - Dichloropropene	10061-01-5															1
Trichloroethene	79-01-6		10	U	10	U	12	U	12	U	12	U	11	U	11	1
Dibromochloromethane	124-48-1															L
1 1 2 Trichloroethane	70 00 6	MOA														

10 U

12 U

12 U

12 U

11 U

11 U

10 U

Ethythenzene

100 – 41 – 4 VDA
Styrene (10tal)

100 – 42 – 5 VOA

Xylene (10tal)

1330 – 20 – 7 VOA

| Lie material was analyzed for, but was not detected. The associated numerical value is the sample quantitationlimit.

3 – The associated numerical value is an estimated quantity.

R – Date for analyze is unreasting (compound may or may not be present).

N – Presumptive evidence of presence of the material at enestimated quantity.

UJ – The material was an alyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

124 - 48 - 1 79 - 00 - 5 71 - 43 - 2 10061 - 02 - 6 75 - 25 - 2 108 - 10 - 1 591 - 78 - 6 127 - 18 - 4 79 - 34 - 5 108 - 88 - 3 108 - 90 - 7 100 - 41 - 4

VOA VOA

VOA

VOA

VOA VOA VOA VOA VOA

Site Name and Code: Castle Miles LF Case Number: 20267

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1,1,2-Trichloroethane Benzene Trans - 1,3 - Dichloropropene Bromoform

4 - Methyl - 2 - Pentanone 2 - Hexanone

Tetrachioroethene 1.1,2,2 - Tetrachioroethane

Toluene Chlorobenzene

Ethylbenzene

Site Name and Code: Castle Miles LF Case Number: 20267

	Perce	Matrix	FA-A68 SOIL	_	FA-A69		FA-A70		FA-A71		FA-A72					
	Percen				SOIL		SOIL	-	SOIL	-		-	FA-A73		FA-A74	
		t Moisture	20		19	-	22	-	9OR.	-	SOIL		SOIL	dille.	WATER	
		Location	\$5-06	-	SS-07		SS-08		55-09	-	20 55-10	-	19			
		an d/or Sample	1						33-09		35-10		SS-11		GW-12	
		Description														
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	6	Concentration	-	Concentration			_		
Chloromethane	74-87-3	VOA				-		-	Concentration	C	Concentration	C	Concentration	C	Concentration	n
Bromomethane	74-83-9			-		-						0.00				П
Vinyl Chloride	75-01-4	VOA	- 10	U	- 10					5 8						7
Chloroethane	75-00-3			Ü		U		U		U	12	U	12	U	1	0
Methylene Chloride	75-09-2					U		U		U	12	U		U		o
Acetone	67-64-1	VOA		U	12		7	J	14	U	12	U		U		0
Carbon Disufficie			12	U	12	U	13	U	10	J	12	U		U		o
1.1 - Dichloroethene	75-15-0								7/1	1		-	12	-		4
1.1 – Dichloroethane	75-35-4	VOA										-	-	-	-	4
1.2 - Dichloroethene (total)	75-34-3	VOA	12		12		13	U	14	u	12	11	12	U		4
Chloroform	540-59-0	VOA	12	U	12	U	13	U	14		12			U		0
	67-66-3	VOA								-	12	U	12	U	10	0
,2 - Dichloroethane	107-06-2	VOA				-				-	-					4
	78-93-3	VOA				75	-			-						4
.1.1 - Trichloroethane	71-55-6	VOA								-						1
Carbon tetrachioride	56-23-5	VOA								-						Ι
romodichioromethane	75-27-4	VOA		-		-		-		-						T
,2-Dichloropropane	78-87-5	VOA														T
is-1,3-Dichloropropene	10061-01-5	VOA								- 1						+
richioroethene	79-01-6	VOA	12	11	12			-								т
ibromochloromethane	124-48-1	VOA	12	U	12	U	13	U	14	U	12	U	12	U	10	sΤ
1,2-Trichloroethane	79-00-5	VOA														Ť
enzene	71-43-2	VOA										-				+
rans-1,3-Dichloropropene	10061-02-6	VOA						1							-	+
romoform	75-25-2			_												+
- Methyl - 2 - Pentanone		VOA										-				+
-Hexanone	108-10-1	VOA										-		-		4
erachicroethene	591-78-6	VOA										-		-		4
1.2.2 - Tetrachioroethane	127-18-4	VOA								-		-	-	-	-	4
oluene	79-34-5	VOA								-		-	-	-		4
	108-88-3	VOA						-		-	-	-		_		1
hiorobenzene	108-90-7	VOA	12	U	12	u	13	11	14	11	- 40					4
thylbenzene	100-41-4	VOA			-	-	10	4	14	U	12	U	12	U	10	4
tyrene	100-42-5	VOA				-		-		-	-	-				Г
ylene (total)	1330-20-7	VOA		-	-	-		-		-						Γ
GEND				_		_		_								г
The material was analyzed for, but was	not detected. The ass	ociatednu	merical value is th		mole our editation is						1000				-	•
					mbre dominimonile	mit.										
The associated numerical value is an es	timated quantity.															
Date for analyte is unusable (compound	d may or may not be p	resent).														
Presumptive evidence of presence of the	e material.															
 Presumptive evidence of the presence The material was an alyzed for, but was 	of the material at mes	timated qui	entity													

Site Name and Code: Castle Miles LF Case Number: 20287 Concentrations in micrograms/Nilogram (u.g/kg) Compiled by: Flu or Dan let, inc.

Traffic Number	FA-A75	FA-A76	FA-A77	FA-A78	FA-A79	
Matrix	WATER	WATER	WATER	WATER	WATER	
Percent Moisture:						
Location and/or Sample Description:	GW-13	GW-14	L-15	GW-17	GW-20	

		Description	1								1					
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
Chloromethane	74-87-3	VOA														
Bromomethane	74-83-9				1 1111					100						
Vinyi Chloride	75-01-4		28		25			U			10					
Chloroethane	75-00-3			U			10				10					
Methylene Chloride	75-09-2		10				10	U			10					
Acetone	67-64-1		10	U	10	U	10	U	10	U	10	U				
Carbon Disuffide	75-15-0	VOA						107	4							
1,1 - Dichloroethene	75-35-4															
1,1 - Dichloroethane	75-34-3		34		36		10				10					
1,2 - Dichloroethene (total)	540-59-0		100	J	110	J	10	U	10	U	10	U				
Chloroform	67-66-3															
1,2-Dichloroethane	107-06-2															
2 - Butanone	78-93-3	VOA														
1,1,1-Trichloroethane	71-55-6	VOA														
Carbon tetrachloride	56-23-5	VOA														
Bromodichloromethane	75-27-4	VOA								100						
1,2-Dichloropropane	78-87-5	VOA														
cis-1,3-Dichloropropene	10061-01-5	VOA					3									
Trichloroethene	79-01-6	VOA	11	J	12	J	10	U	10	U	10	U				
Ditromochloromethane	124-48-1	VOA														
1.1.2-Trichloroethane	79-00-5	VOA						-	All the same of th							
Benzene	71-43-2	VOA														
Trans-1,3-Dichloropropene	10061-02-6	VOA														
Bromoform	75-25-2	VOA														
4 - Methyl - 2 - Pentanone	108-10-1	VOA										- 3				
2 - Hexanone	591-78-6	VOA														
Tetrachloroethene	127-18-4	VOA														
1.1.2.2 - Tetrachioroethane	79-34-5	VOA				100										
Toluene	108-88-3	VOA														
Chlorobenzene	108-90-7	VOA	10	U	10	U	10	U	6	J						
Ethylbenzene	100-41-4	VOA				1		Ť						1		
Styrene	100-42-5	VOA							NOT THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE							
Xylene (total)	1330-20-7	VOA														

- LEGEND

 U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitationlimit.

 J The associated numerical value is an estimated quantity.

 J The associated numerical value is an estimated quantity.

 N Pleas myster evidence of presence of the material.

 N Presumptive evidence of the presence of the material.

 UJ The material was an alyzed for, but was not detected. The sample quantity in the sample quantity.

Site Name and Code: Miller Road LF Case Number: 20355 Concentrations in micrograms/fullogram (ug/kg) Compiled by: Fluor Daniel, Inc.

		Traffic Number:	FA-A59		FA-A60		FA-A63		FA-A64	COLUMN TO SERVICE SERV	FA-A65	-	FA-A66	-	FA-A67	-
		ercent Moisture	WATER	_	WATER		SOIL		SOIL		SOIL	-	SOL	-	FA-A67 SOIL	-
		Location	GW-16	-	-		20		17		19	-	19		SOIL.	-
		and/or Sample Description:			GW-18		SS-01		SS-02		\$8-03		55-04		SS-05	
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	Ic	Concentration	10		_				
alpha-BHC	319-84-6	PEST/PCB	-	-	-	+		-	CONCENTRATION	-	Concentration	C	Concentration	C	Concentration	C
beta-BHC	319-85-7	PEST/PCB			-	-									The same of the sa	-
delta-BHC	310-86-0	PEST/PCB				-			L. 100					-		+
gamma-BHC(Lindane)	50-00-0	PEST/PCB										-	-	-		+
Heptachlor	20-44-0	PEST/PCB										-	1	-	-	+
Aldrin	70-44-8	PESTPUB										-	-	-		+-
Heptachlor epoxide	309-00-2	PEST/PCB												-		+
Endosulfan I	1024-57-3													-		+
Dieldren	959-98-8	PEST/PCB										-				-
4.4'-DDE		PEST/PCB								-		-	-	-	-	1
Endrin		PEST/PCB					100					-		-		1
Endosultan II		PEST/PCB								-						-
4.4'-DDD	33213-65-9											-				-
Endosulfan sulfate	72-54-8	PEST/PCB	0.1	U	0.1	U	3.3	U	4.9	1	3.5		-			
4.4'-DDT	1031-07-B	PEST/PCB			and a second	1		-	4.0	3	3.5	U	3.5	U	3.3	1
		PEST/PCB							-							
Methoxychlor		PEST/PCB						17.00	-							
Endrin ketone	53494-70-5		0.1	U	0.1	U	3.3	11	3.6					. /		100
Endrin aldehyde	7421-93-4					-	9.0	0	3.0	U	3.5	U	3.5	U	3.3	U
alpha-Chlordane	5103-71-9			100								_		. 3		
gamma-Chlordans	5103-74-2	PEST/PCB						-		- 7						
Toxaphene	8001-35-2	PEST/PCB					-									
Aroclor-1016	12674-11-2	PEST/PCB	-	-												
Aroclor-1221	11104-28-2	PEST/PCB						-								
Aroclor-1232	11141-16-5													0.0		
Vocior - 1242	53469-21-9				-			-								
Aroclor - 1248	12672-29-6			-												
Araciar ~ 1254	11097-69-1					-						1				
Aroclor-1260	11096-82-5		1	11	-											
EGEND		1		J	-	U	15	J	39	J	35	U	35	u	33	11

- IFCEND

 U The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation. Imit.

 B Analyte was detected in the blank.

 J The associated numerical value is an estimated quantity.

 B Date for analyte is unusable (compound may or may not be present).

 N Presumptive evidence of presence of the material.

 NJ Presumptive evidence of the presence of the material at an estimated quantity.

 UJ The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

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Site Name and Code: Miller Road LF Case Number: 20355 Concentrations in micrograms/kilogram (ug/kg) Compiled by: Fluor Deniel, Inc.

Traffic Number:	FA-A68	FA-A69	FA-A70	FA-A71	FA-A72	FA-A73	FA-A74
Matrix:	SOIL	SOIL	SOL	SOIL	SOIL	SOL	WATER
ercent Moisture:	17	19	22	27	19	18	
Location and/or Sample Description:	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	GW-12

COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	3	Concentration	C	Concentration	C
alpha-BHC	319-84-6	PEST/PCB										-				T
beta- BHC	319-85-7	PEST/PCB													-	
delta-BHC	319-86-8	PEST/PCB														T
gamma-BHC4_indane)	58-89-9	PEST/PCB									-					
Heptachlor	76-44-8	PEST/PCB								7						
Aldrin	309-00-2	PEST/PCB														1
Heptachlor epoxide	1024-57-3	PEST/PCB														
Endosulfan I	959-98-8	PEST/PCB														
Dieldren	60-57-1	PEST/PCB														1
4,4'-DDE	72-55-9	PEST/PCB	Charles and the					-								-
Endrin	72-20-8	PEST/PCB					The second second									
Endosulfan II	33213-65-9	PEST/PCB														1
4,4'-DDD	72-54-8	PEST/PCB	3.6	U	3.4	U	3.6	U	4	U	3.6	U	3.5	U	0.1	1 1
Endosulfan sulfate	1031-07-B	PEST/PCB												1		1
4,4'-DDT	50-29-3	PEST/PCB									THE RESERVE OF					1
Methaxychlor	72-43-5	PEST/PCB														
Endrin ketone	53494-70-5	PEST/PCB	5.0	J	3.4	U	3.6	U	4	U	3.6	U	3.5	U	0.1	1 L
Endrin aldehyde	7421-93-4	PEST/PCB														1
alpha-Chiordane	5103-71-9	PEST/PCB														
gamma-Chlordane	5103-74-2	PEST/PCB														
Toxaphene	8001-35-2	PEST/PCB														
Aroclor-1016	12674-11-2	PEST/PCB														
Aroclor-1221	11104-28-2	PEST/PCB														
Aroclor-1232	11141-16-5	PEST/PCB														
Aroclor - 1242	53469-21-9	PEST/PCB														1
Aroclor -1248	12672-29-6	PEST/PCB							-	-						-
Araclar - 1254	11097-69-1	PEST/PCB				1										1
Aroclor-1260	11096-82-5		49	J	15	J	20	J	17	J	36	U	19	JP		1 1

LEGEND

U — The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.

B — Analyte was detected in the blank.

J — The associated numerical value is an estimated quantity.

R — Date for analyte is unusuable (compaund may or may not be present).

N — Presumptive evidence of presence of the material.

N — Presumptive evidence of the presence of the material.

U — The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

UJ — The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

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Site Name and Code: Miller Road LF Case Number: 20355 Concentrations in micrograms/kilogram (ug/kg) Compiled by: Fluor Daniel, Inc.

Traffic Number:	FA-A75	FA-A76	FA-A77	FA-A78	FA-A79	7
Matrix	WATER	WATER	WATER	WATER	WATER	
Location	GW-13	OW 11				
and/or Sample	GW-13	GW-14	L-15	GW-17	GW-20	

		Description:														
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	17
alpha-BHC	319-84-6	PEST/PCB								-		-		-	-	£
beta-BHC	319-85-7	PEST/PCB	The second second			1	-	-	-	-		-		-		1
delta-BHC	319-86-8	PEST/PCB				-				-		-				1
gamma-BHC(Lindane)	58-89-9	PEST/PCB		-		-			-	-			-			1
Heptachlor		PEST/PCB					-		-	-						1
Aldrin	309-00-2	PEST/PCB				-			-	-						1
Heptachlor epoxide	1024-57-3				-			-	-	-						1
Endosulfan I	959-98-8					-		-	-	-						
Dieldren		PEST/PCB				-		-		-						
4,4'-DDE		PEST/PCB						-	-	-						
Endrin		PEST/PCB				-		-	-	-						
Endosulfan II	33213-65-9					-			-	-						
4,4'-DDD		PEST/PCB	0.1	11	0.1	11	0.1		-							
Endosulfan sulfate	1031-07-B		0.1	-	0.1	-	0.1	U	0.1	U	0.1	U				
4,4'-DDT		PEST/PCB		-				-				-				
Methoxychlor		PEST/PCB						-						1 3		
Endrin ketone	53494-70-5		0.1	11	0.1		0.1		-			-				
Endrin aldehyde	7421-93-4		0.1	-	0.1	U	0.1	U	0.1	U	0.1	U		0.3		
alpha-Chlordane	5103-71-9															
gamma-Chiordane	5103-74-2					-			-							
Toxaphene	8001-35-2					-		_								
Aroclor-1016	12674-11-2															
Aroclor-1221	11104-28-2			= 7			-									
Aroclor-1232	11141-16-5														MILLION CONTRACTOR	
Araciar - 1242	53469-21-9	PESTIPOR	-													
Aroclor - 1248	12672-29-6		-	1000		-										
Aroclor - 1254	11097-69-1		-													
Aroclor-1260	11096-82-5			U		U										
EGEND		- LOWFOB I	-	J		U	1	U	1	U	1	U		4 3		

- LEGEND

 U = The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation. Imit. B = Analyte was detected in the blank.

 J = The associated numerical value is an estimated quantity.

 R = Date for analyte is unusable (compound may or may not be present).

 N = Presumptive evidence of presence of the material.

 NJ = Presumptive evidence of the presence of the material at an estimated quantity.

 UJ = The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.